

CLAIMS

What is claimed is:

- 5 1. A two-directions scanning method, said two directions scanning method comprises:
 setting a first dpi in a user interface;
 driving a scan head to make said scan head move along a first scanning direction to proceed with a first scanning procedure, wherein
10 a first image is got from said first scanning procedure;
 setting a second dpi and a scope in said user interface and said scan head moving along a second scanning direction to proceed with a second scanning procedure in a third dpi at the same time, wherein a second image is got from said second scanning procedure;
15 and
 transforming said second image to become a third image according to said scope and said second dpi by using a program.
- 20 2. The method according to claim 1, wherein said first dpi is lower than said third dpi.
3. The method according to claim 1, wherein said second dpi is lower than said third dpi.
- 25 4. The method according to claim 1, wherein said third dpi is a highest dpi of said scan head.
5. The method according to claim 1, wherein said

program transforms said second image to become said third image by adjusting a graph image coordinate.

5 6. The method according to claim 1, wherein said program transforms said second image to become said third image by adjusting a dpi scale.

10 7. The method according to claim 1, wherein said first scanning direction and said second scanning direction are opposite directions of a line.

8. The method according to claim 1, wherein said first scanning procedure is a preview procedure.

15 9. A two-directions scanning method, said two directions scanning method comprises:

selecting a two-directions scanning mode in a user interface;
setting a first dpi and a second dpi in said user interface;
driving a scan head to make said scan head move along a first
20 scanning direction to proceed with a first scanning procedure, wherein a first image is got from said first scanning procedure;

setting a third dpi and a scope of said first image in said user interface and said scan head moving along a second scanning direction to proceed with a second scanning procedure in said second dpi and
25 said first dpi at the same time, wherein a second image is got from said second scanning procedure and saved in a memory; and

selecting a program mode and transforming said second image to become a third image according to said scope and said third dpi by

using a program.

10. The method according to claim 9, wherein said first dpi is lower than said second dpi.

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11. The method according to claim 9, wherein said first dpi is lower than said third dpi.

12. The method according to claim 9, wherein said third dpi is lower than said second dpi.

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13. The method according to claim 9, wherein said third dpi is a highest dpi of said scan head.

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14. The method according to claim 9, wherein said program transforms said second image to become said third image by adjusting a graph image coordinate.

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15. The method according to claim 9, wherein said program transforms said second image to become said third image by adjusting a dpi scale.

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16. The method according to claim 9, wherein a fourth dpi is set in said user interface after said third image is formed.

17. The method according to claim 16, wherein said second image is transformed to become a fourth image according to said fourth dpi by using said program after said fourth dpi is set.

18. The method according to claim 17, wherein said can be used to replace said first image.

19. The method according to claim 9, wherein said
5 program transforms said second image to become said fourth image by adjusting a dpi scale.

20. A two-directions scanning method, said two directions scanning method comprises:

10 selecting a two-directions scanning mode in a user interface;
setting a first dpi in said user interface;
driving a scan head to make said scan head move along a first scanning direction from a first scanning end point to a second scanning end point to proceed with a first scanning procedure, wherein
15 a first image is got from said first scanning procedure and is shown on a monitor;

setting a second dpi and a first scope of said first image in said user interface and said scan head moving along a second scanning direction from said second scanning end point to said first scanning
20 end point to proceed with a second scanning procedure in a third dpi at the same time, wherein a second image is got from said second scanning procedure and is saved in a memory to become a temporary file;

selecting a program mode and transforming said second image
25 to become a third image according to said first scope and said second dpi by using a program to adjust a graph image coordinate and a dpi scale, wherein said third image is shown on said monitor;

setting a fourth dpi and a second scope of said first image in

said user interface; and

transforming said second image to become a fourth image
according to said fourth dpi and said second scope by using said
program to adjust a graph image coordinate and a dpi scale and said
5 fourth image is shown on said monitor to replace said third image.

21. The method according to claim 20, wherein said first
dpi is lower than said third dpi.

10 22. The method according to claim 20, wherein said
second dpi is higher than said third dpi.

23. The method according to claim 17, wherein said first
15 dpi is lower than said second dpi.

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